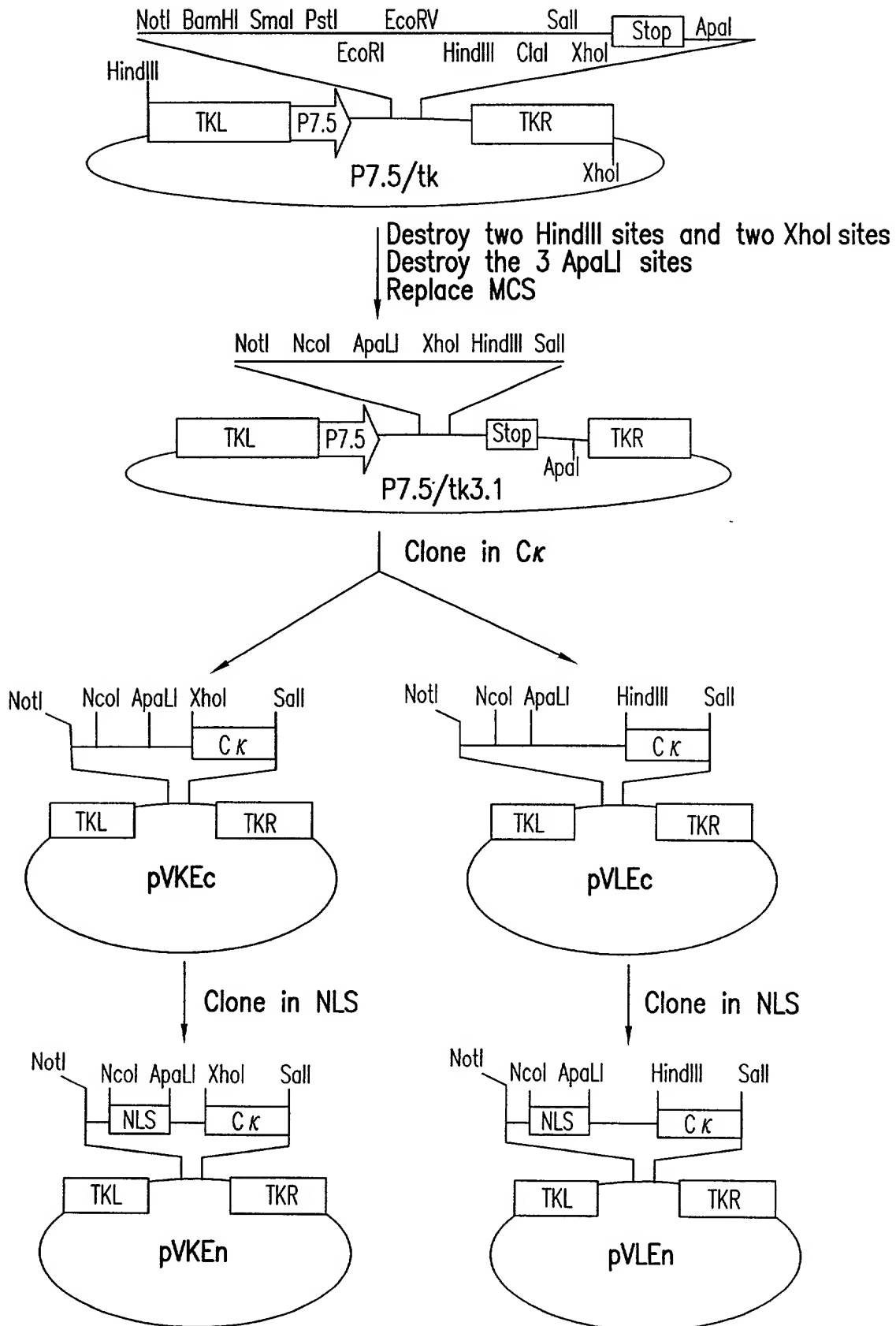


CONSTRUCTION OF pVHEc

FIG.1



CONSTRUCTION OF pVKEc/pVLEc AND pVKEc/pVLEc

FIG.2

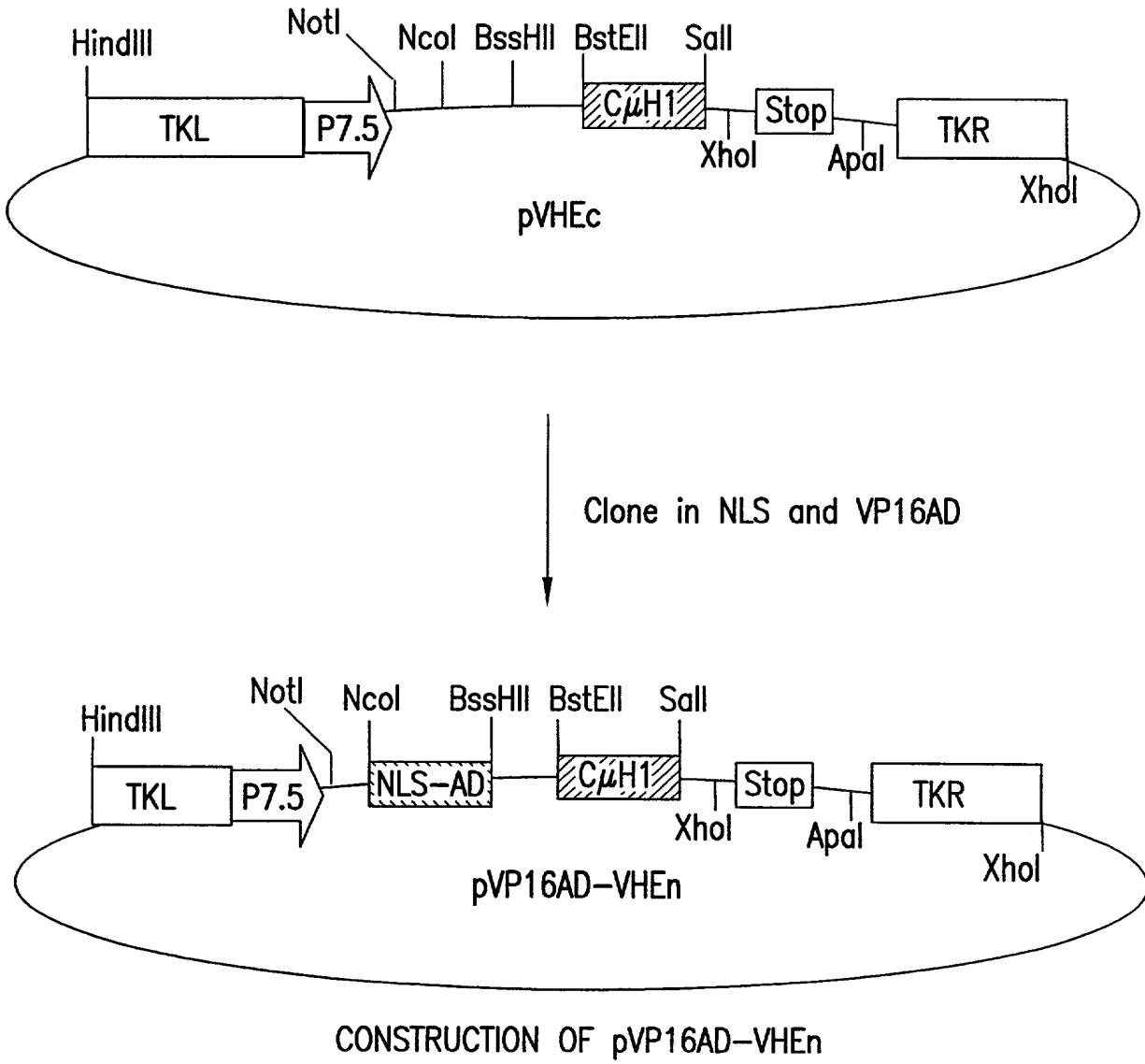


FIG.3

Appl. No. To be assigned; Group Art Unit: To be assigned

Dkt. No. 1821.0090004; Batch No.: N/A

Inventors: Zauderer *et al.*; Tel: 202/371-2600

Title: Methods of Producing or Identifying Intrabodies in Eukaryotic Cells

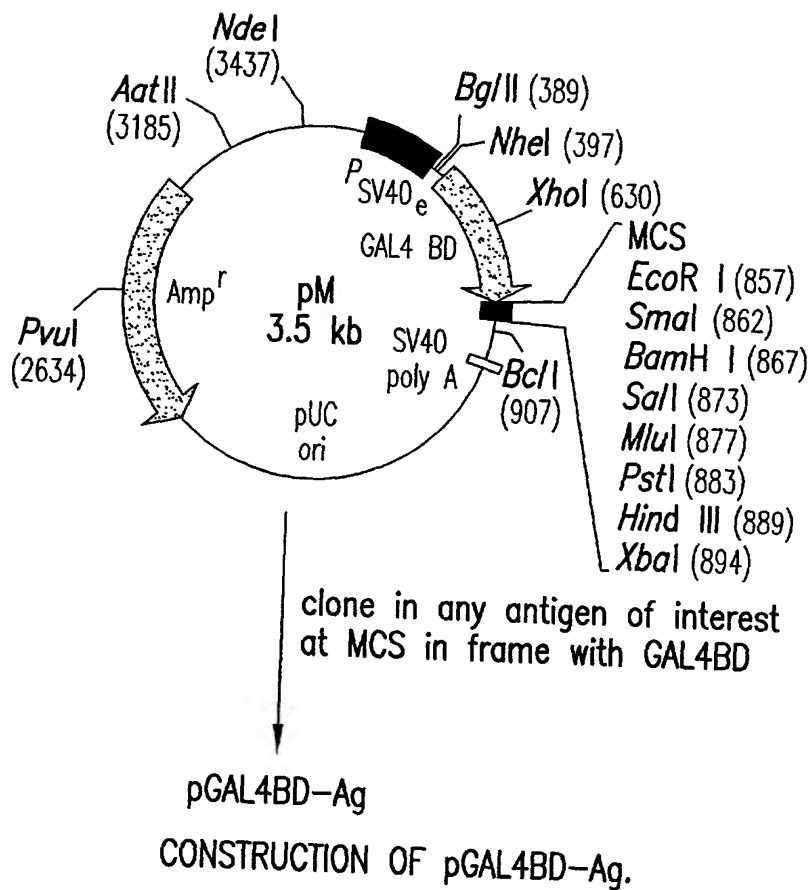
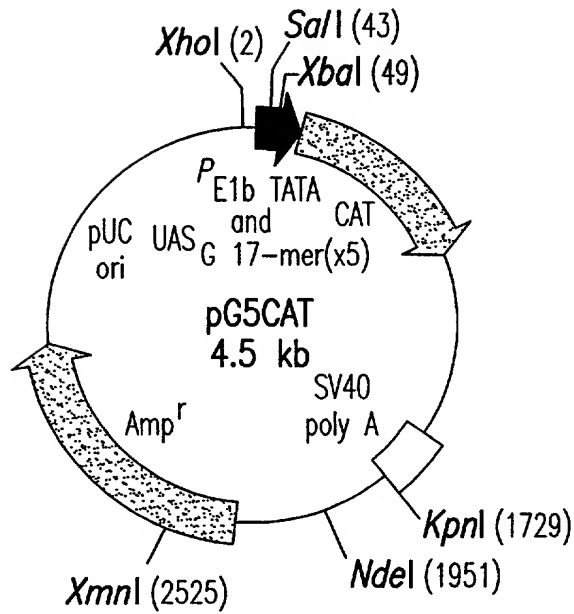


FIG.4



↓ mutagenize nt118 & 119 from AA to CC
to create an NcoI site at aa1 of CAT

↓ Mutagenize nt635 from C to T to
destroy the NcoI site at aa173 of
CAT

↓ pG5

↓ clone in the CTL target or other reporter construct
at NcoI and BspEI to replace the CAT gene

↓ pG5-R

CONSTRUCTION OF pG5-R.

FIG.5

TRI-MOLECULAR HOMOLOGOUS RECOMBINATION

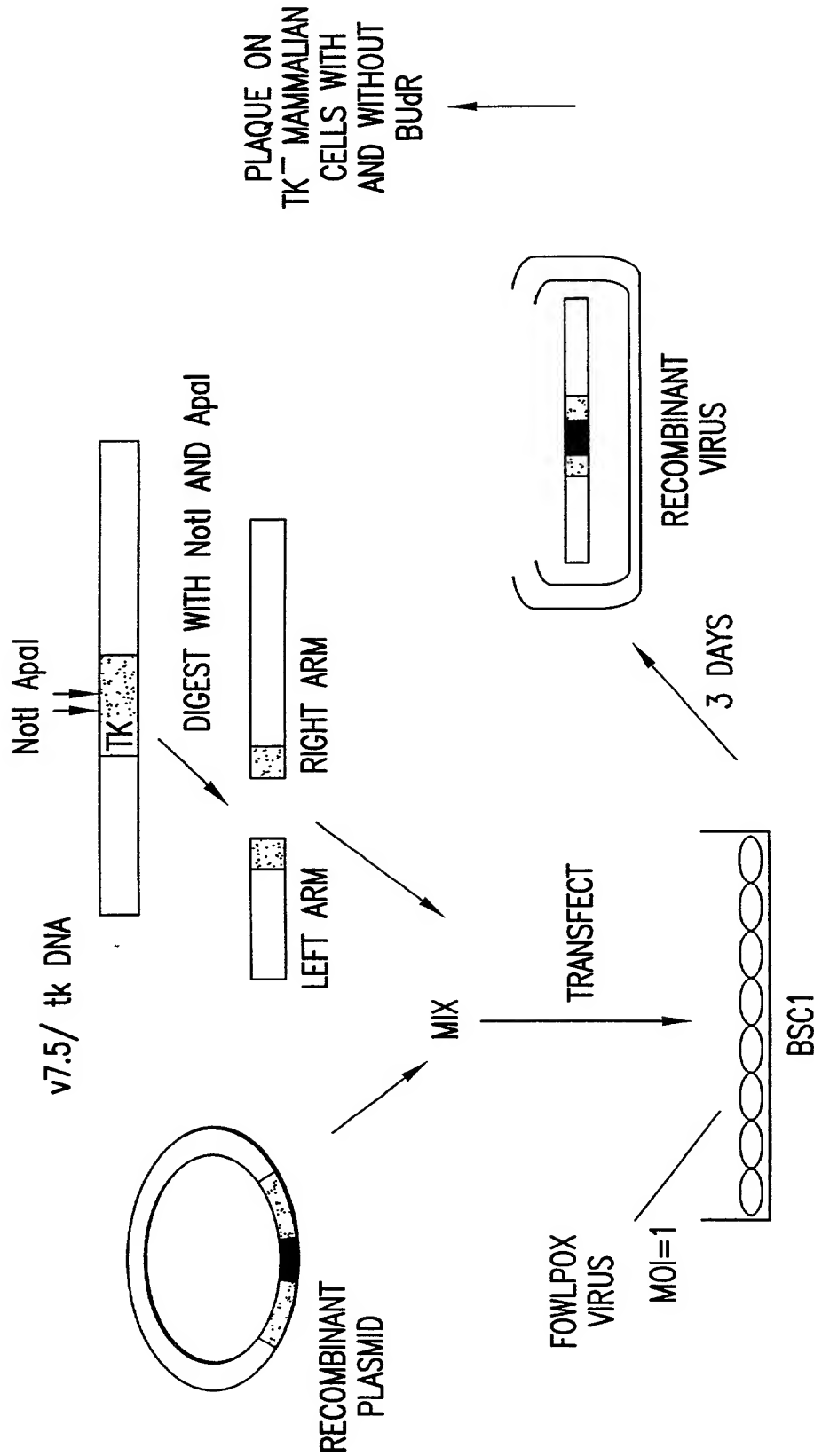


FIG.6

p7.5tk

7.5 k promoter

Not I Apa I

GGCCAAAAATTGAAAACTAGATCTATTATTGCACGCGCGCCGCGCATG GGC CCG GCC GCC AAC GGC GGA
Met Gly Pro Ala Ala Asn Gly Gly

tk coding sequence



pE/Ltk

synthetic E/L promoter

Not I Apa I

GGCCAAAAATTGAAATTTTATTTTTTTTTTTTGGAAATATAAGCGGCGCGCCGCGCATG GGC CCG GCC GCC AAC GGC GGA
Met Gly Pro Ala Ala Asn Gly Gly

tk coding sequence



FIG.7

1. p7.5tk

7.5K PROMOTER NOTI APAI
5' - GGCCAAAAATTGAAAAACTAGATCTATTTATTGCACGGCGCGCCCATGGGCCCCGGCC -3'

2. p7.5/ATG0/tk

7.5K PROMOTER NOTI BAMHI SMAI PSTI
5' - GGCCAAAAATTGAAAAACTAGATCTATTTATTGCACGGCGCGCCGTGGATCCCCCGGGCTGCAGGAA

SALI TRANSLATION STOP CODONS TRANSCRIPTION STOP SIGNAL

TTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCTAACTAAATTTGTTTTTGT

APAI

GGGCCCCGGCC -3'

FIG. 8A

3. p7.5/ATG1/tk

| 7.5K PROMOTER | NOTI | START CODON | BAMHI | SMAI | PSTI |
|---|------|----------------|-------|------|------|
| 5' - GCCCAAAATTGAAAACTAGATCTATTATTGCACGGCGGCCCATGGTGGATCCCCCGGCTGCAGGAA | | | | | |
| TTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGCCCTAACTAAATTTGTTTTTGT | | | | | |

APAI
GGGCGCGGCC -3'

FIG. 8B

4. p7.5/ATG2/tk

| | | | | | |
|---------------|-------|-------|-------|------|------|
| 7.5K PROMOTER | NOTI | START | BAMHI | SMAI | PSTI |
| | CODON | | | | |

5' -- GCCCAAAATTGAAAAACTAGATCTATTTATTGCACGGCGCGCCCATGAGTGGATCCCCCGGCTGCAGGAA

| | | |
|-------|-------------|---------------|
| SAL I | TRANSLATION | TRANSCRIPTION |
| | STOP CODONS | STOP SIGNAL |

TTCCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGCCTAACATAATTTGTTTTTGT

APAI

GGGGCCGGCC --3'

FIG. 8C

5. p7.5/ATG3/tk

| | | | |
|--|------|-------|-----------------|
| 7.5K PROMOTER | NOTI | START | |
| | | CODON | BAMHI SMAI PSTI |
| 5' – GCCCAAAAATTGAAAAAAGTAGATCTATTATTGCACGGCGCGCGCCATGACGTGGATCCCCGGGCTGCAGGAA | | | |

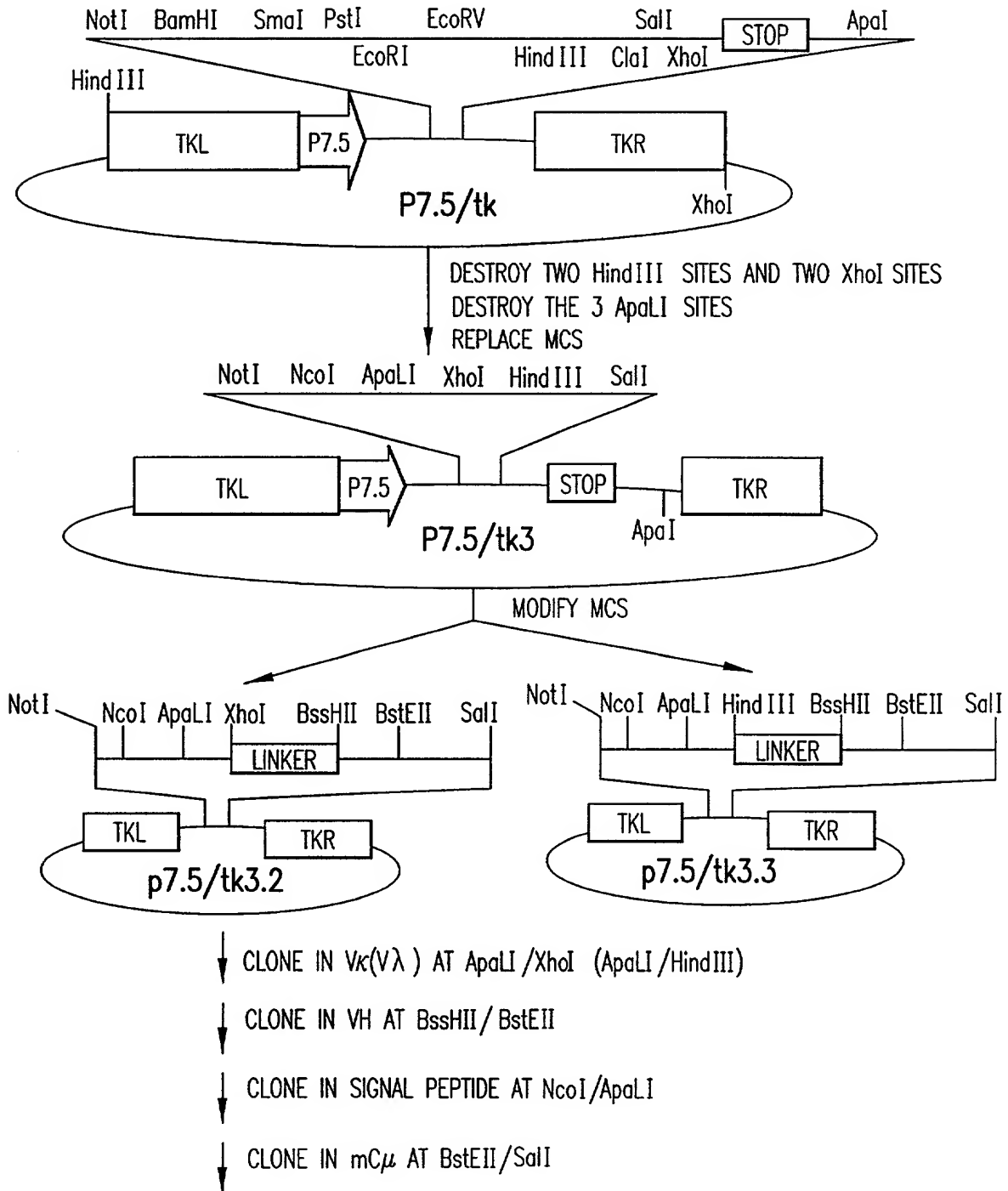
| | | |
|------|-------------|---------------|
| SALI | TRANSLATION | TRANSCRIPTION |
| | STOP CODONS | STOP SIGNAL |

TTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGCCTAACATAATTTGTTTTGT

APAI

GGGCCCCGGCC –3'

FIG. 8D



CONSTRUCTION OF scFV EXPRESSION VECTORS

FIG.10